# **HS-100ST Accelerometer**

## AC acceleration and temperature output via Flame Retardant Cable

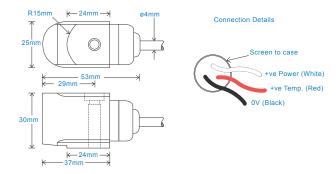
## **Key Features**

- Temperature output
- Side entry for easy access
- · Low smoke, halogen free cable

#### Industries

Building services, Pulp and Paper, Mining, Metals, Utilities, Automotive, Water, Pharmaceutical





## **Technical Performance**

Mounted Base Resonance see 'How To Order' table (nominal) Sensitivity see: 'How To Order' table ±10% Nominal 80Hz at 22°C 2Hz (120cpm) to 10kHz (600kcpm) ± 5% Frequency Response 1.5Hz (90cpm) to 12kHz (720kcpm) ± 10% 0.8Hz (48cpm) to 15kHz (900kcpm) ± 3dB Isolation Base isolated see: 'How To Order' table Range Temperature Output 10 mV/°C standard 100°C - Option 140°C Transverse Sensitivity Less than 5%

## Mechanical

Case Material Stainless Steel Sensing Element/Construction PZT/Compression Mounting Torque Mounting Bolt Provided see: 'How To Order' table x 30mm long Weight 185gms (nominal) Maximum Cable Length 1000 metres Standard Cable Length 5 metres Screened Cable Flame Retardant - length to be specified with order Mounting Threads see: 'How To Order' table

#### Electrical

 Electrical Noise
 0.1mg max

 Current Range
 0.5mA to 8mA

 Bias Voltage
 10 - 12 Volts DC

 Settling Time
 2 seconds

 Output Impedance
 200 Ohms max

 Case Isolation
 >108 Ohms at 500 Volts

## Environmental

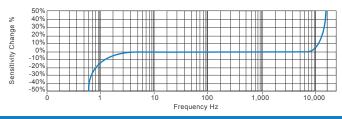
 Operating Temperature Range
 -40 to 100°C

 Sealing
 IP65

 Maximum Shock
 5000g

 EMC
 EN61326-1:2013

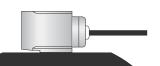
## Typical Frequency Response (at 100mV/g)



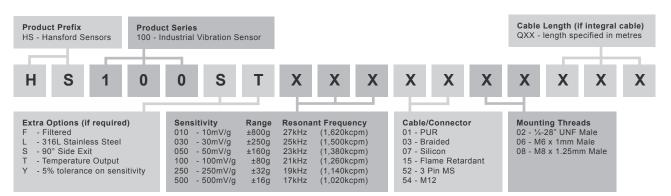
## **Applications**

Fans, Motors, Pumps, Compressors, Centrifuges, Conveyors, Air Handlers, Gearboxes, Rolls, Dryers, Presses, Cooling, VAC, Spindles, Machine Tooling, Process Equipment

Vibration sensor should be firmly fixed to a flat surface (spot face surface may be needed to be produced and cable anchored to sensor body.)



## How To Order





www.hansfordsensors.com sales@hansfordsensors.com

